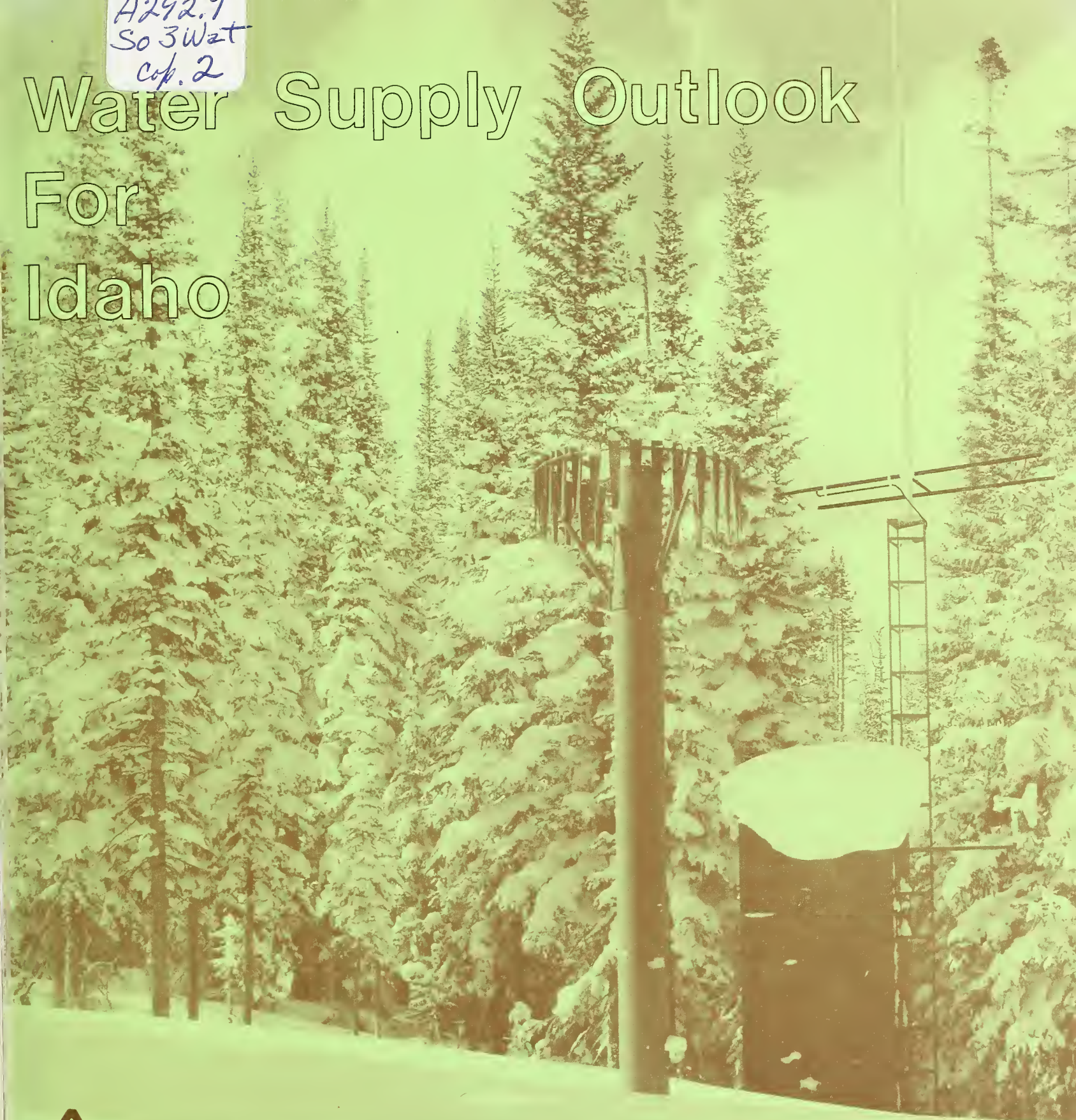


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Water Supply Outlook For Idaho



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
MAR. 1, 1979

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: VIEW OF A SNOTEL DATA SITE IN THE SNOWY RANGE IN WYOMING. TALL CYLINDRICAL DEVICE IS A PRECIPITATION GAGE. SNOW PILLOWS ON THE GROUND NOT VISIBLE DUE TO SNOW COVER. SHELTER HOUSE, ANTENNA TOWER, ANTENNA, AND TEMPERATURE UNIT ARE VISIBLE BEHIND THE PRECIPITATION GAGE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

R.M. DAVIS

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D C

|||||
Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

C. STEPHEN ALLRED

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

|||||
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BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR MARCH 1, 1979

March 1 snowpack measurements indicated a marked improvement in the water supply outlook for Idaho during the summer months of 1979. Seasonal streamflow forecasts vary from 63 percent of average for the Big and Little Wood Rivers to 121 percent for the Montpelier Creek drainage in Southeastern Idaho. Runoff in most streams is expected to be from slightly below to near normal.

In general, 85 to 90 percent of the snowpack has accumulated by March 1 each year. Major storms over the entire state during the latter part of February greatly improved the snow water equivalent in the mountain snowpack.

Watersheds in Northern Idaho and Western Montana from the Spokane River north increased an average of 28 percentage points to 89 percent of normal; the Clearwater and Salmon drainages improved 20 percent points to 84 percent; the central and western watersheds north of the Snake River improved 35 percent points to 78 percent of average; the Snake River and tributaries above American Falls Reservoir increased 15 percent to 108 percent of normal; and the Bear River tributaries in Southeastern Idaho improved 6 percent to 114 percent of average.

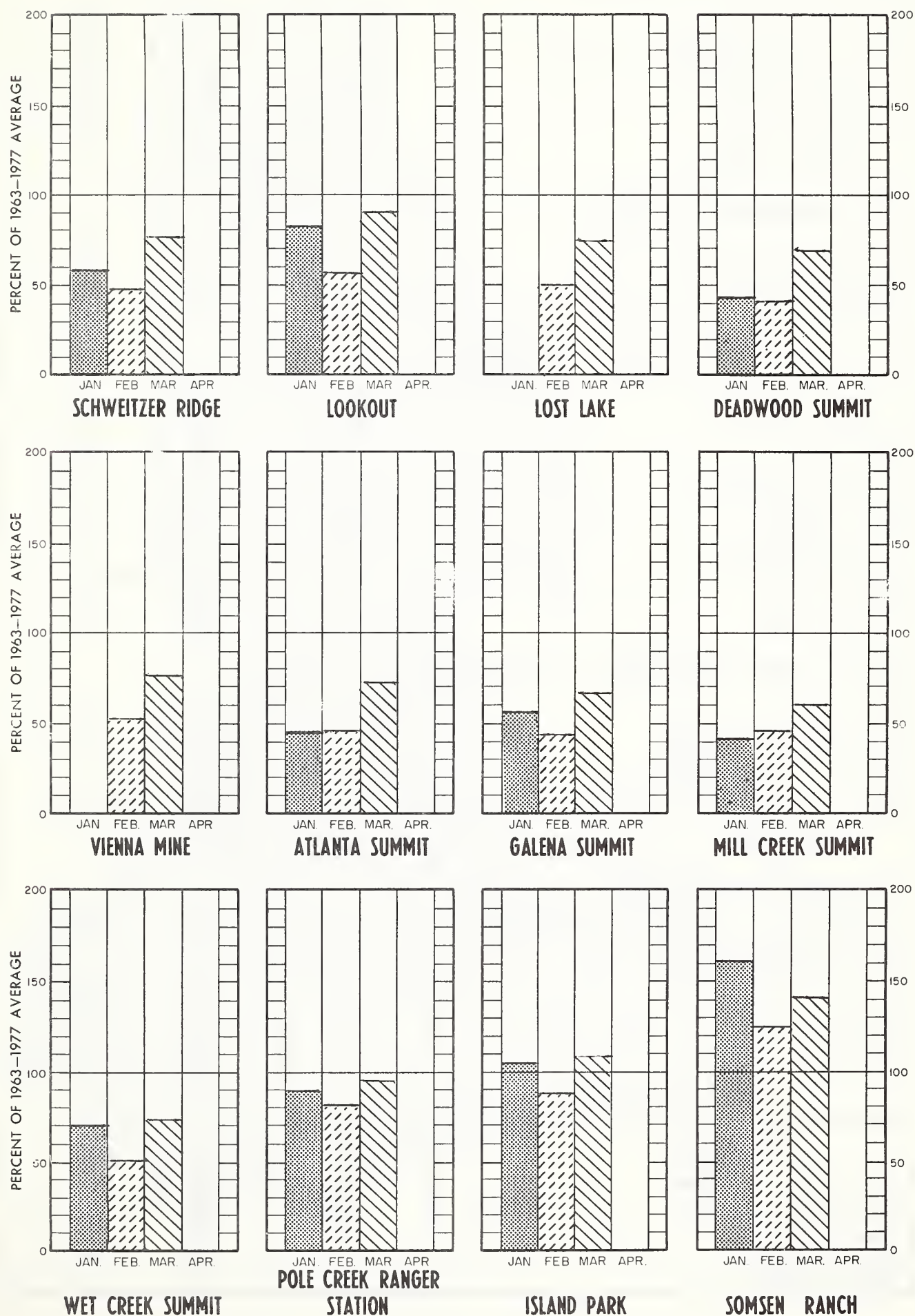
Reservoir storage is good to excellent. Seventeen irrigation reservoirs in the Snake River Basin show a combined carryover volume of 108 percent of normal. Assuming normal climatic conditions for the remainder of the season, forecasted streamflow coupled with good storage indicate an adequate water supply for the 1979 water year.

Precipitation was well above normal and temperatures were just below normal across Idaho for February. The precipitation averaged 154 percent of normal with the Twin Falls area being one of the few below normal with only 67 percent. Ketchum was at the high end with 212 percent. For the water year almost all areas are below normal with the state averaging 76 percent.

SNOW WATER DEPTHS ACCUMULATION For Selected Snow Courses

As Compared To 1963 - 1977 15 Year Average

FEBRUARY 1, 1979



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	1963-77 AVERAGE
<u>UPPER COLUMBIA RIVER BASIN</u>			
Kootenai River	30	85	75
Pend Oreille River	107	91	99
Clark Fork River	73	92	102
Flathead River	34	89	95
Priest River	4	85	86
Spokane River	12	100	96
Hayden Creek	4	142	--
<u>LOWER SNAKE RIVER BASIN</u>			
Palouse River	4	252	139
Clearwater River	13	98	91
Salmon River	16	66	77
Lemhi River	6	80	84
<u>MIDDLE SNAKE RIVER BASIN - Northside</u>			
Little Lost River	5	79	94
Big Lost River	7-8	59	64
Fish Creek	2	83	103
Little Wood River	4	61	72
Big Wood River	10-11	58	69
Boise River	16-17	64	78
Canyon Creek	3	61	86
Payette River	14	68	79
Weiser River	6	81	92
Mann Creek	4	81	96
<u>MIDDLE SNAKE RIVER BASIN - Southside</u>			
Raft River	6	96	98
Goose-Trapper Creek	3	98	109
Salmon Falls Creek	10	102	109
Bruneau River	5	90	99
Owyhee River	7	104	135
Jordan Creek	2	101	125
<u>UPPER SNAKE RIVER BASIN</u>			
Snake Basin - Above Palisades Res.	33	77	108
Camas-Beaver Creeks	2	76	87
Henrys Fork River	7	77	98
Teton River	11	90	118
Willow Creek	5-10	92	110
Blackfoot River	3	83	115
Portneuf River	4	88	106
<u>GREAT BASIN</u>			
Bear River - Upper	8	74	105
Bear River - Lower	24	87	116
Montpelier Creek	6	75	110
Mink Creek	7	82	113
Cub River	3-4	93	120
Malad River	4-6	82	123




SNOW WATER DEPTHS

As percent of 1963-77 15 year average
MARCH 1, 1979

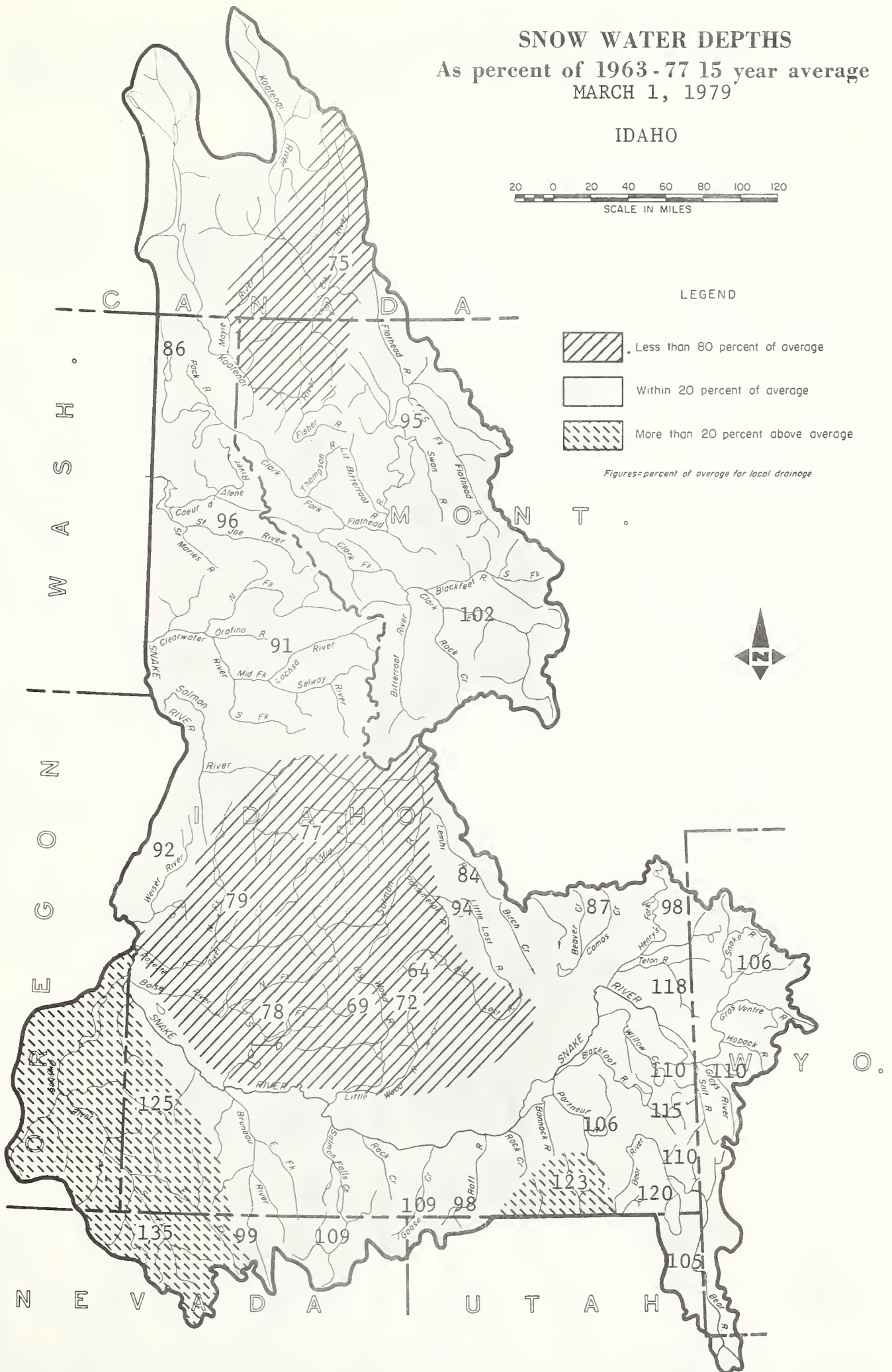
IDAHO

20 0 20 40 60 80 100 120
SCALE IN MILES

LEGEND

-  Less than 80 percent of average
-  Within 20 percent of average
-  More than 20 percent above average

Figures=percent of average for local drainage



RESERVOIR STORAGE (1,000 Ac. Ft.)

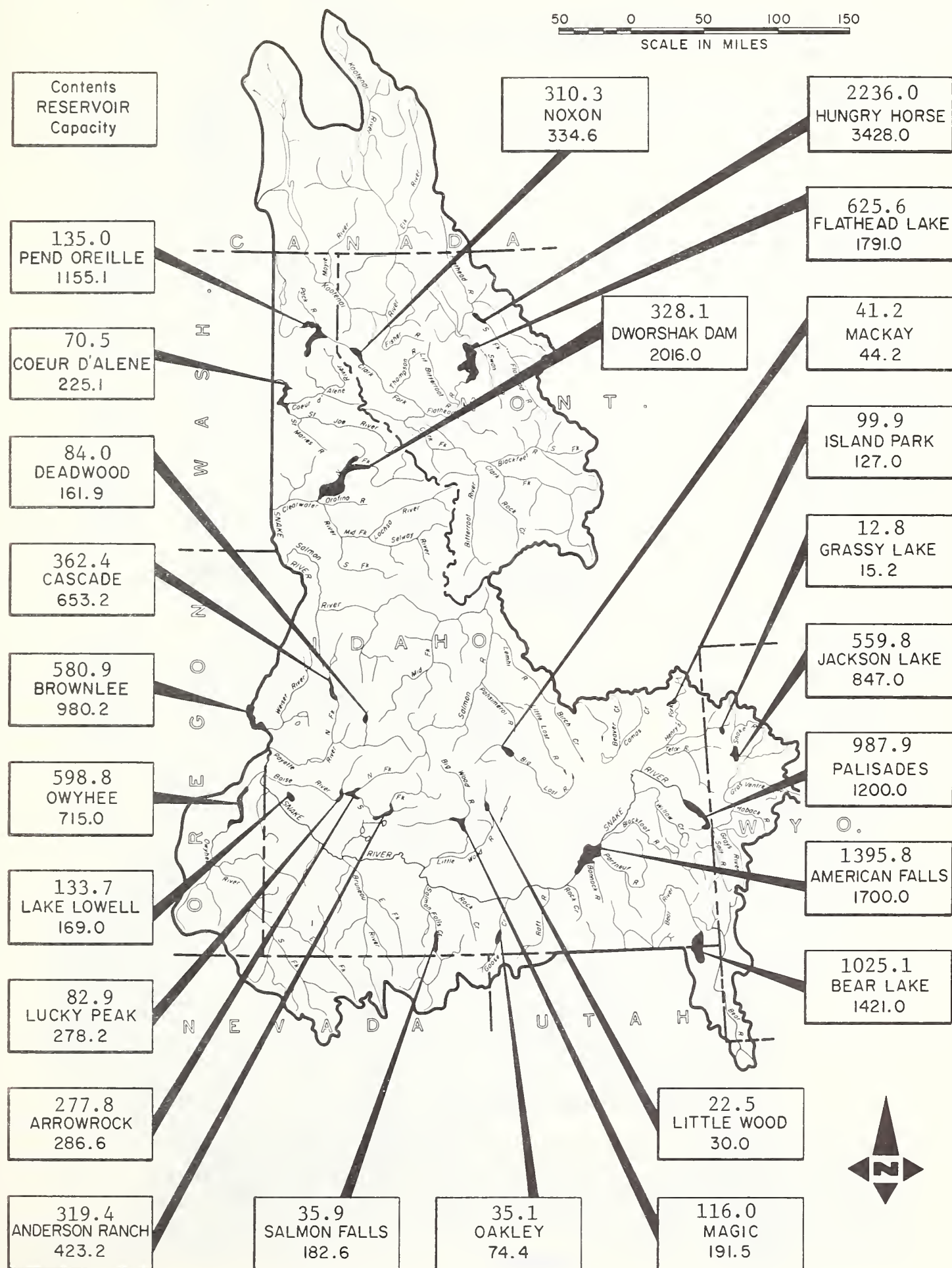
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	2236.0	1641.0	2329.0*
Flathead	1791.0	625.6	681.2	1009.0*
Pend Oreille	1155.1	135.0	143.7	376.0
Noxon	334.6	310.3	261.8	300.6
<u>Spokane</u>				
Coeur d'Alene	225.1	70.5	134.1	121.6
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	847.0	559.8	333.2	615.6
Palisades	1200.0	987.9	294.9	903.6
American Falls	1700.0	1395.8	1189.9	1241.9
Island Park	127.0	99.9	98.9	114.6
Grassy Lake	15.2	12.8	8.9	10.6
Brownlee	980.2	580.9	475.2	465.2
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	35.1	31.7	29.3
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	35.9	35.9	55.5
<u>Big Lost</u>				
Mackay	44.2	41.0	28.1	32.4
<u>Big Wood</u>				
Magic	191.5	116.0	21.0	113.9
<u>Little Wood</u>				
Little Wood	30.0	22.5	7.8	17.8
<u>Fish Creek</u>				
Carey Valley	14.4	5.3	3.0	--
<u>Boise</u>				
Anderson Ranch	423.2	319.4	79.7	256.5
Arrowrock	286.6	277.8	167.6	251.4
Lucky Peak	278.2	82.9	69.5	87.1
Lake Lowell (Deer Flat)	169.0	133.7	115.1	132.6
<u>Owyhee</u>				
Owyhee	715.0	598.8	310.4	491.3
<u>Payette</u>				
Cascade	653.2	362.4	283.3	338.8
Deadwood	161.9	84.0	51.8	85.9
<u>Weiser</u>				
Mann Creek	11.1	4.2	6.6	--
<u>Clearwater</u>				
Dworshak	2016.0	328.1	528.1	--
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1025.1	785.5	1030.6
*Period of Record.				

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MARCH 1, 1979

50 0 50 100 150
SCALE IN MILES



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]

UPPER COLUMBIA BASIN

KOOTENAI RIVER

Leonia	(at)	7200	81	Apr-Sep	8436	8883
		6300	82	Apr-Jul	7207	7727
		5100	83	Apr-Jun	5618	6150

PEND OREILLE RIVER

Clark Fork River

Whitehorse Rapids	(at)	12300	89	Apr-Sep	--	13781
		11200	89	Apr-Jul	--	12519
		9450	89	Apr-Jun	--	10633

Priest River <u>1/</u>	(nr)	600*	71	Apr-Jul	--	841
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SPOKANE RIVER

Post Falls <u>2/</u>	(at)	2850	98	Apr-Sep	--	2910
----------------------	------	------	----	---------	----	------

St. Joe River

Calder	(at)	1280	98	Apr-Sep	--	1309
		1220	99	Apr-Jul	--	1238

SNAKE RIVER BASIN

SNAKE RIVER - MAIN STEM

Moran <u>3/</u>	(nr)	870	96	Apr-Sep	950	903
Palisades Inflow <u>3/</u>		3750	97	Apr-Sep	4698	3863
Heise <u>4/</u>	(nr)	4080	96	Apr-Sep	--	4247
Blackfoot <u>5/</u>	(nr)	4450	97	Apr-Jul	--	4579

Henrys Fork

Ashton <u>6/</u>	(nr)	750	102	Apr-Sep	--	737
Rexburg <u>7/</u>	(nr)	1575	103	Apr-Sep	--	1534

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake.
2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake.
4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

+ 1963-1977

*National Weather Service forecast.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR			PAST RECORD	
		FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
		Thousand Acre Feet	Percent of Average		Last Year	Average [†]
<u>Portneuf River</u>						
Topaz	(at)	115	106	Mar-Sep	--	108
Oakley Reservoir Inflow		37	103	Mar-Sep	--	36
<u>Salmon Falls Creek</u>						
San Jacinto	(nr)	90	95	Mar-Sep	--	95
		86	96	Mar-Jul	--	90
<u>Bruneau River</u>						
Hot Springs	(nr)	235	94	Mar-Sep	--	251
<u>Little Lost River</u>						
Howe	(nr)	37	90	Apr-Sep	--	41
		24	92	Apr-Jun	--	26
<u>Big Lost River</u>						
Howell Ranch	(at)	160	71	Apr-Sep	--	225
Mackay <u>1/</u>	(nr)	140	69	Apr-Sep	--	204
<u>Big Wood River</u>						
Magic Reservoir		200	63	Apr-Sep	--	319
Inflow <u>2/</u>		220	66	Mar-Jul	--	332
<u>Little Wood River</u>						
Carey	(nr)	67	63	Apr-Sep	--	107
		55	63	Apr-Jun	--	87
<u>Boise River</u>						
Twin Springs	(nr)	550	75	Apr-Sep	--	733
		510	76	Apr-Jul	--	676
Boise <u>3/</u>	(nr)	1270	75	Apr-Sep	--	1695
<u>South Fork</u>						
Anderson Dam <u>4/</u>	(at)	475	76	Apr-Sep	--	622
<u>Owyhee River</u>						
Gold Cr., Nev. <u>5/</u>	(nr)	30	130	Apr-Jul	--	23
Owyhee, Nev. <u>5/</u>	(nr)	90	112	Apr-Jul	--	80
Lake Owyhee		546	164	Apr-Sep	--	332*
net inflow <u>6/</u>		724	168	Mar-Jul	--	431*

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir
2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrow-
 rock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for
 storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow. + 1963-1977 period.

*1958-1972 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁺

Payette River

Horseshoe Bend 1/ (nr) 1490 80 Apr-Sep -- 1860

North Fork

Cascade 3/ (at) 450 80 Apr-Sep -- 564

Banks 3/ (nr) 580 80 Apr-Sep -- 726

Weiser River

Weiser (nr) 490 88 Mar-Sep -- 558

Salmon River

Whitebird (at) 5500* 76 Apr-Sep -- 7196

Clearwater River

Spalding (at) 7900* 91 Apr-Sep -- 8672

GREAT BASINBEAR RIVER

Harer (at) 305 92 Apr-Sep 278 332

Montpelier Creek

Montpelier (nr) 15 121 Apr-Sep -- 12.4

Cub River

Preston (nr) 50 100 Apr-Sep -- 50.0

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4. Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. + 1963-1977
*National Weather Service forecast.

VALLEY PRECIPITATION 1/
 Division Averages and Departures
 In Inches

DRAINAGE DIVISIONS	Winter February 1979		Fall - Winter Nov. 78 - Feb. 79	
	Observed	Departure <u>2/</u>	Observed	Departure <u>2/</u>
Kootenai, Canada & U.S.	4.46	+2.51	9.05	-2.60
Flathead	2.57	+0.83	7.62	-1.58
Clark Fork	2.06	+0.79	6.03	-0.75
Pend Oreille-Spokane	4.83	+1.99	11.54	-3.48
Upper Snake	2.38	+0.53	8.85	+0.26
Snow River Plain	0.91	+0.13	3.69	-0.61
Salmon-Payette-Boise	3.05	+1.30	7.56	-2.50
Clearwater	3.54	+0.67	12.21	-2.71
Owyhee-Malheur	1.39	+0.54	4.76	-0.06

1/ Preliminary analysis and data by the National Weather Service and Meteorological Service of Canada.

2/ Departure from 15-year (1963-77) drainage division average.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Elevation				Last Year	Average ¹

UPPER COLUMBIA RIVER BASINPEND OREILLE - PRIEST RIVER

Benton Meadow	2370	2/26	26	7.0	6.8	6.4
Benton Spring	4900	2/26	62	17.5	18.0	17.7
#Mosquito Ridge (A)	5110	3/2	106	31.4	38.9	34.6
Schweitzer Bowl	4500	3/1	84	24.3	27.1	28.1*
Schweitzer Ridge	6200	3/1	103	30.8	42.2	40.3*

HAYDEN LAKE

Chilco Ridge	3650	2/26	33	10.0	6.6	--
Conie Ridge	3900	2/26	44	13.1	8.4	--
Corner Creek	3150	2/26	34	10.2	6.2	--
Sage Creek Saddle	4100	2/26	71	20.2	16.6	--

SPOKANE RIVER

Above Burke	4100	2/28	67	23.6	19.1	22.9*
Copper Ridge	4800	2/28	85	27.7	20.3	25.1
#Forty-nine Meadows	4840	3/1	86	23.4	21.6	27.2
Fourth of July Summit	3200	3/1	42	12.4	8.0	8.9
Kellogg Peak (A)	5560	3/2	86	31.0	32.3	28.2*
Lookout	5120	2/28	94	27.8	33.0	31.0
#Lost Lake	6080	3/1	130	36.7	42.2	50.0*
Lower Sands Creek	3400	2/27	56	18.5	14.6	17.5*
Mosquito Ridge (A)	5110	3/2	106	31.4	38.9	34.6
Roland Summit (A)	5200	3/2	98	29.0	29.9	31.3
Sherwin	3200	2/28	49	15.7	8.8	13.3
Sunset (A)	5600	3/2	114	32.3	41.6	32.6*

LOWER SNAKE RIVER BASINPALOUSE RIVER

Crumarine Creek	3340	2/27	40	12.0	3.9	7.6
East Twin	4050	2/27	47	14.5	5.0	10.8
Howard Creek	3500	2/27	32	8.7	1.6	5.6
Moscow Mountain	4360	2/27	66	19.2	12.5	15.6
West Twin	4250	2/27	47	13.8	4.1	9.4

CLEARWATER RIVER

Breezy Saddle	5000	3/1	88	24.0	23.5	--
Cayuse Airstrip	3500	3/1	43	12.2	8.9	12.0
Crater Meadows	6100	3/1	108	32.8	33.3	38.9
Crooked Fork	3600	2/26	42	12.2	13.8	12.7*
Fish Lake Airstrip	5650	3/1	106	31.0	28.7	36.3

(b) 1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year Average. (1) Aerial observation Water content estimated (SP) Pressure Pillow snow-water equivalent (R) Radioactive Gage snow-water equivalent

SNOW		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b
Forty-nine Meadows	4840	3/1	86	23.4	21.6	27.2
Hemlock Butte	5500	3/1	125	35.1	37.9	43.6*
#Hoodoo Basin	Mont. 6000	2/27	123	42.3	46.7	45.4*
#Hoodoo Creek	Mont. 5900	2/27	120	40.2	43.4	42.0*
Kit Carson Pasture	4950	3/2	38	9.2	--	--
Lolo Pass	5240	2/26	88	30.7	31.0	27.5
Lost Lake	6080	3/1	130	36.7	42.2	50.0*
#Nez Perce Pass	Mont. 6575	3/2	57	18.6	19.7	15.7
Pierce Ranger Station	3170	2/28	42	12.8	9.6	10.9
Savage Pass	6170	2/26	78	24.8	27.6	24.1
Shanghai Summit	4600	3/1	84	23.9	21.4	24.1

WEBB CREEK

Kruse Meadows	4800	2/27	40	11.5	--	--
Soldier Meadow	4640	2/27	37	11.1	--	--
Webb Creek	4720	2/27	39	11.4	--	--

SALMON RIVER

#Banner Summit	7040	3/2	77	20.0	--	--
Big Creek Summit	6600	2/24	92	23.8	38.6	31.6
#Boulder Creek	5500	2/27	74	20.3	22.6	21.8
Brundage Mountain	7560	2/25	99	29.8	47.5	40.6*
#Deadwood Summit	6750	3/2	99	28.5	47.1	41.3*
Doublespring Pass (A)	8400	2/27	32	7.6	12.1	--
#Galena Summit	8780	3/1	54	13.5	25.0	20.6
#Gibbons Pass	Mont. 7100	2/27	63	18.9	25.1	21.2
#Lemhi Pass	Mont. 7480	3/4	40	9.8	10.8	8.1
#Lemhi Ridge	Mont. 8100	3/4	43	10.3	13.8	8.9*
Mill Creek Summit (A)	8800	2/27	48	12.1	21.3	20.3
Moose Creek	6200	2/28	52	14.8	19.2	15.6
Morgan Creek	7580	2/27	38	9.6	15.1	12.8
Perreau Meadows	8000	2/26	48	12.4	--	--
Redfish Lake Flat	6550	2/28	36	7.6	13.6	8.9*
#Rock Flat Summit	5340	2/25	56	16.2	19.3	16.7
#Secesh Summit	6520	3/3	90	26.0	35.1	31.0*
#Squaw Meadow	5900	3/3	88	26.7	35.7	31.9
Twin Peaks (A)	9170	2/27	51	12.9	27.1	23.0*
Vienna Mine	8950	2/26	78	24.0	37.8	32.1
Williams Creek Summit	7820	2/26	37	9.2	14.4	11.1

Lemhi River

Above Gilmore	8250	2/27	33	6.6	9.1	8.2
Aspen-Hall Pass (A)	8110	2/27	33	6.9	9.7	8.5*
Copes Camp	7500	2/27	29	6.0	7.5	6.6
Hall Creek	7560	2/27	22	4.6	3.8	4.8*
Meadow Lake (A)	9200	2/27	49	13.7	16.7	16.5
Schwartz Lake	8500	2/27	37	8.5	11.1	10.8*

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SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
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MIDDLE SNAKE RIVER BASIN - NORTHSIDELITTLE LOST RIVER

Fairview Guard Station	6750	2/28	25	5.4	5.8	4.2
Hilts Creek	8000	2/26	31	6.7	--	--
Lost Garfield	6600	2/28	21	4.6	6.6	3.7
Moonshine	7500	2/28	37	7.7	11.0	9.3
Sawmill Canyon	6900	2/28	30	7.1	8.6	6.9
Wet Creek Summit	7760	2/26	33	7.8	9.2	10.7

BIG LOST RIVER

Bear Canyon	7920	2/26	42	9.8	15.2	15.9
Copper Basin	7650	2/26	18	4.6	8.8	8.4
Fishpole Lake	9350	2/26	42	10.8	--	17.3*
Iron Bog	7650	2/27	37	8.1	14.9	12.8*
Leadbelt	6800	2/27	27	5.8	11.0	8.6
Lost-Wood Divide	7900	2/26	48	12.3	22.6	20.4*
Stickney Mill	7450	2/26	27	6.8	7.9	8.3
White Knob	7700	2/26	24	5.2	9.5	7.9

FISH CREEK

Iron Mine Creek	6370	2/28	41	10.4	12.0	9.9
Telfer Ranch	6000	2/28	33	7.8	10.0	7.8

LITTLE WOOD RIVER

#Bear Canyon	7920	2/26	42	9.8	15.2	15.9
Garfield Ranger Station	6560	2/27	31	7.8	13.7	9.8
Muldoon	6300	2/27	29	7.0	9.4	7.6
Swede Peak	7640	2/27	44	10.5	19.4	15.2

BIG WOOD RIVER

Camas Creeks Divide	5720	2/27	32	9.4	12.2	10.0*
Chimney Creek	6400	2/27	41	10.7	--	--
#Couch Summit	6850	2/26	47	9.9	20.3	16.9*
Dollarhide Summit	8400	2/26	58	15.0	--	21.1
Galena	7300	3/1	55	12.1	21.6	17.0
Galena Summit	8780	3/1	54	13.5	25.0	20.6
Graham Ranch	6280	3/1	45	9.0	13.8	12.8
Hyndman Creek	7440	2/26	39	9.5	--	--
#Lost-Wood Divide	7900	2/26	48	12.3	22.6	20.4*
Mascot Mine	7760	2/26	37	9.2	15.1	13.1
Mount Baldy	9000	3/1	55	11.6	22.5	18.4
Soldier Ranger Station	6100	2/26	32	8.5	15.4	11.5
#Vienna Mine	8950	2/26	78	24.0	37.8	32.1

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SNOW

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CANYON CREEK

Bennett Mountain	6650	2/27	47	12.2	21.9	15.0*
#Camas Creeks Divide	5720	2/27	32	9.4	12.2	10.0*
Little Camas Flat	4950	2/27	16	5.1	9.4	5.9*

BOISE RIVER

Atlanta Summit	7500	3/2	81	22.4	36.8	31.2*
Bad Bear	5500	2/27	42	11.5	15.9	13.5
#Bennett Mountain	6650	2/27	47	12.2	21.9	15.0*
#Bogus Basin	6340	2/27	61	17.5	25.3	20.7
Bogus Basin Road	5520	2/27	32	8.5	8.5	5.8
#Camas Creeks Divide	5720	2/27	32	9.4	12.2	10.0*
#Chimney Creek	6400	2/27	41	10.7	--	--
Couch Summit	6850	2/26	47	9.9	20.3	16.9*
Deadman Gulch	5600	3/3	48	14.0	16.7	14.9*
#Dollarhide Summit	8400	2/26	58	15.0	--	21.1
Graham Guard Station	5690	3/2	45	12.0	21.1	--
Jackson Peak	7070	3/2	74	20.7	33.3	27.3
#Little Camas Flat	4950	2/27	16	5.1	9.4	5.9*
Moores Creek Summit	6100	2/27	73	21.7	35.8	28.6
Prairie	4800	2/25	21	5.2	5.8	5.8
Road Creek	5550	3/2	30	8.2	--	10.4
#Soldier Ranger Station	6100	2/26	32	8.5	15.4	11.5
Trinity Mountain	7780	3/2	90	26.6	45.2	38.2
#Vienna Mine	8950	2/26	78	24.0	37.8	32.1

PAYETTE RIVER

Banner Summit	7040	3/2	77	20.0	--	--
#Big Creek Summit	6600	2/24	92	23.8	38.6	31.6
Bogus Basin	6340	2/27	61	17.5	25.3	20.7
#Brundage Mountain	7560	2/25	99	29.8	47.5	40.6*
Cozy Cove	5400	3/2	51	13.0	18.6	15.2*
Crawford Ranger Station	4800	2/24	25	5.8	10.0	7.7
#Deadman Gulch	5600	3/3	48	14.0	16.7	14.9*
Deadwood Airstrip	5440	3/2	49	13.0	18.9	14.4
Deadwood Summit	7000	3/2	99	28.5	47.1	41.3*
#Jackson Peak	7070	3/2	74	20.7	33.3	27.3
Lake Fork	6000	2/25	51	11.9	19.2	14.6
Rock Flat Summit	5340	2/25	56	16.2	19.3	16.7
Secesh Summit	6520	3/3	90	26.0	35.1	31.0*
Squaw Meadow	5900	3/3	88	26.7	35.7	31.9
Tripod Summit	5200	3/4	55	13.8	20.3	16.7

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WEISER RIVER

Boulder Creek	5500	2/27	74	20.3	22.6	21.8
Placer Creek	6000	3/26	48	12.3	18.3	16.5

MANN CREEK

Mann Creek	6080 ~	2/25	70	19.2	26.1	22.5*
Robinson Creek Ridge	6220	2/25	61	17.2	22.1	18.4*
Sturgill Ridge	6680	2/25	83	25.2	29.3	26.1*
Thorson Cabin	5320	2/25	49	14.4	16.0	12.3*

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

Boy Scout Camp		7750	2/26	39	11.3	11.6	12.8
Clear Creek Meadows	Utah	9050	2/26	69	19.6	20.9	19.1
George Peak	Utah	9000	2/26	70	20.0	24.5	--
Howell Canyon		7980	2/26	62	17.7	22.3	22.1
Indian Grove		7580	2/26	40	11.0	--	--
Logger Springs		8120	2/26	52	14.5	--	--
One Mile Summit	Utah	7330	2/26	24	6.6	4.5	6.1
Sheep Hollow		6200	2/26	26	7.5	7.0	5.7*
Sublett		6000	2/26	39	11.3	11.0	10.1

GOOSE CREEK

Badger Gulch		6660	2/26	40	11.4	11.1	10.7
Bostetter Ranger Station		7500	2/26	57	17.6	19.4	17.1
#Indian Grove		7580	2/26	40	11.0	--	--
#Logger Springs		8120	2/26	52	14.5	--	--
Vi Pont	Utah	7670	2/26	51	15.5	15.0	12.9*

SALMON FALLS CREEK

#Bear Creek	Nev.	7800	2/27	59	17.0	20.7	18.0*
Cedar Creek		7000	2/27	41	12.3	8.9	9.3
Deadline		6900	2/27	64	22.4	19.2	18.8*
#Fox Creek	Nev.	6800	2/27	40	10.5	10.7	9.7
Goat Creek	Nev.	8800	2/27	46	13.0	17.6	15.7
#Hummingbird Springs	Nev.	8940	2/27	59	16.7	22.8	19.5
Magic Mountain		6700	2/27	62	20.3	18.5	16.4
#Pole Creek Rgr. Sta.	Nev.	8330	2/27	55	17.6	16.3	18.6
Shoshone Basin		5740	2/27	35	11.0	5.8	5.3
Wilson Creek		7500	2/27	47	14.5	12.2	11.0

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BRUNEAU RIVER

Bear Creek	Nev.	7800	2/27	59	17.0	20.7	18.0*
Fox Creek	Nev.	6800	2/27	40	10.5	10.7	9.7
Hummingbird Springs	Nev.	8940	2/27	59	16.7	22.8	19.5
Pole Creek Ranger Sta.	Nev.	8330	2/27	55	17.6	16.3	18.6
#Seventy-six Creek	Nev.	7100	2/27	48	13.8	13.4	10.5

OWYHEE RIVER

Antelope Ridge		6150	3/3	30	8.9	9.2	6.9*
Battle Creek (A)		5700	3/2	23	6.4	5.0	3.2
#Bear Creek	Nev.	7800	2/27	59	17.0	20.7	18.0*
Bull Basin (A)		5600	3/2	5	1.4	2.2	1.2
#Fox Creek	Nev.	6800	2/27	40	10.5	10.7	9.7
Hyde Pasture (A)		5800	3/2	27	7.6	7.0	5.3
Mud Flat		5720	3/3	30	8.6	11.3	6.0*
Red Canyon (A)		6650	3/2	15	4.2	8.4	6.6
#Seventy-six Creek	Nev.	7100	2/27	48	13.8	13.4	10.4*
Silver City		6400	2/24	50	16.6	15.6	13.7
South Mountain		6340	2/24	54	15.0	15.8	11.6
Vaught Ranch (A)		5950	3/2	27	7.6	7.0	4.1*
War Eagle (A)		7700	3/2	86	23.2	23.2	--

UPPER SNAKE RIVER BASINCAMAS-BEAVER CREEKS

Camp Creek		6800	2/28	32	7.3	9.3	9.8
Kilgore		6200	2/26	41	10.5	14.0	10.6

HENRYS FORK RIVER

Big Springs		6400	2/27	62	18.1	23.5	18.7
Grassy Lake	Wyo.	7230	2/27	108	34.3	34.9	30.6
Island Park		6290	2/27	61	16.4	20.0	15.1
Sawtell Mountain		8720	2/27	87	23.6	36.2	28.4*
Targhee Pass		7000	2/28	49	11.8	16.0	13.6*
Valley View		6740	2/28	59	14.9	17.2	15.6
White Elephant		7700	2/27	74	18.7	31.6	18.4*

TETON RIVER

Darby Canyon	Wyo.	8250	3/3	68	19.6	23.5	19.8*
Freds Mountain	Wyo.	8150	3/3	75	20.9	28.8	16.9*
Garns Mountain		8300	3/3	127	40.2	38.7	33.7*
Indian Meadows	Wyo.	8240	3/3	109	32.3	33.4	30.9*
Jackpine Creek	Wyo.	7350	3/3	78	21.0	26.0	19.6*

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McRenolds Reservoir	6800	3/3	75	19.8	22.1	17.4*
Miles Creek	Wyo. 7300	3/3	49	12.9	17.1	11.7*
Phillips Bench	Wyo. 8200	2/26	100	30.4	35.8	23.2*
Pine Creek Pass	6750	3/3	60	20.0	19.4	15.6
State Line	6650	3/3	55	16.3	14.9	12.7
Teton Pass W.S.	Wyo. 8400	2/28	88	28.3	30.8	21.0*

WILLOW CREEK

Aspen Grove	6500	2/26	43	11.3	11.5	10.7*
Birch Creek	6800	2/26	44	12.0	9.9	10.7*
Blue Ridge	6800	2/26	53	14.3	17.2	--
Bone	6200	2/26	34	9.9	8.5	7.4*
Brockman Station	6430	2/26	43	13.0	12.2	--
Hell Creek	7100	2/26	54	15.5	16.6	--
Mud Creek	7150	2/26	44	11.9	17.9	--
Sheep Mountain	6570	2/26	43	11.2	13.5	12.5*
Tex Creek	6650	2/26	38	10.5	9.6	8.5*
Henry Creek	5650	2/26	24	6.4	8.6	--

BLACKFOOT RIVER

Austin Bros. Ranch	6400	2/28	41	11.0	12.7	8.3
Slug Creek Divide	7230	2/27	50	14.8	21.4	14.8
Somsen Ranch	7000	2/28	52	17.8	18.2	12.7

PORTNEUF RIVER

Dempsey Creek	6100	2/25	47	11.6	15.3	11.0
Lower Pebble	5800	2/25	53	15.5	15.5	12.3*
Mink Creek	6300	2/24	57	14.1	15.2	15.5
Pebble Creek	6550	2/25	54	15.4	18.0	14.5

TOPONCE CREEK

Cold Springs	7000	3/3	61	21.0	--	--
Putnam	7200	3/3	61	19.4	--	--
Toponce	6350	3/3	49	15.2	--	--

GREAT BASINBEAR RIVER

Emigrant Summit	7380	2/27	78	23.3	28.2	21.7
Emigration Canyon	6500	2/27	43	12.4	13.2	9.7

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MONTPELIER CREEK

Giveout	6840	2/27	47	12.6	15.6	11.1
Little Beaver	6970	2/27	53	15.6	19.8	14.0
Lower Home Canyon	7640	2/26	48	13.2	17.3	12.2*
Montpelier Creek	6570	2/27	37	10.4	13.5	7.5
Upper Home Canyon	8560	2/26	65	20.0	28.4	19.9*
Whiskey Flat	6960	2/27	36	9.0	13.2	8.5

MINK CREEK

Christensen Ranch	5400	2/26	43	10.9	11.2	7.9
Dry Basin	7900	2/26	87	26.9	33.8	24.2*
#Emigrant Summit	7380	2/27	78	23.3	28.2	21.7
Horseshoe Basin	8000	2/26	74	22.5	31.9	22.0*
Liberty Spring	8600	2/26	105	35.0	44.4	32.7
Strawberry Creek	5800	2/27	49	13.6	12.4	9.6
Strawberry Mink Divide	6800	2/26	73	22.0	25.6	18.7

CUB RIVER

Cub River Ranger Sta.	5400	2/26	43	11.5	11.0	8.4
#Franklin Basin	8000	2/26	74	22.6	26.7	22.7
Willow Flat	6100	2/26	62	19.9	18.7	13.9
Worm Creek	6660	2/26	66	19.7	22.5	--

MALAD RIVER

Cliff Canyon	7200	2/26	34	8.6	12.3	--
Daniels Creek	6400	2/26	32	7.7	7.9	--
Dry Creek Flat	6480	2/26	36	10.7	11.3	7.4
Lower Elkhorn	7000	2/26	46	14.5	19.9	12.7*
Oxford Mountain	6800	2/26	46	13.1	12.6	9.4
Upper Elkhorn	7100	2/26	61	18.2	24.4	16.4*

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Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U.S. Army Engineers

U.S. Department of Agriculture
Forest Service
Agricultural Research Service
Statistical Reporting Service

U.S. Department of Commerce
NOAA, National Weather Service

U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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